

Title (en)

Process for producing polyesters using a niobium compound as a catalyst.

Title (de)

Verfahren zur Herstellung von Polyestern unter Anwendung einer Niob-Verbindung als Katalysator.

Title (fr)

Procédé pour la préparation de polyesters utilisant un composé de niobium comme catalyseur.

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Application

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Abstract (en)

A process for producing a linear polyester comprising a main structural unit of an aromatic dicarboxylic acid ester of an alkylene glycol, particularly, comprising a polyethylene terephthalate or polytetramethylene terephthalate unit, is provided. In the process of the invention, the polycondensation reaction is conducted in the presence of a niobic acid catalyst that is obtained by heat-treating a hydrated niobium compound at the temperature range between 80 DEG C and 400 DEG C. The process of the invention is also effectively applied to the manufacture of an elastomeric polyester comprising a polyalkylene terephthalate as a hard segment and a polyalkylene glycol as a soft segment.

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